

## ABSTRACT OF THE DISCLOSURES

The invention concerns a method for locally determining a profile of geological horizons comprising a step (100) which consists in digital modelling with continuous local seismic traces, calculating an optimal offset and defining a conditional neighbourhood of a reference central continuous local seismic trace; a step (101) which consists in defining residuals relative to said reference central continuous local seismic trace; a third step (102) which consists in minimizing the set of residuals on said conditional neighbourhood and a fourth step (103) which consists in determining parametric coefficients corresponding to the minimization of the set of residuals on the conditional neighbourhood carried out at step (102).